

48V

30/50/75/80/100/135/150Ah

RACK MOUNTED LI-ION BATTERY



SAFETY

- + Prismatic LiFePO₄ cells, Longer cycle life and much more safety.
- + Low voltage system, safety for application.
- + IEC62619, UL1642, UN38.3 certification for cell.
- + UN38.3 certification for system.



DESIGN

- + Standard 19" rack design.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.



SCALABILITY

- + Parallel support for more energy.
- + Optional accessories for LCD display, MCB, GPS Anti-theft.



BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.
- + RS232, RS485, CAN communication port.

For more information, contact with: sales@ritarpower.com

48V30Ah

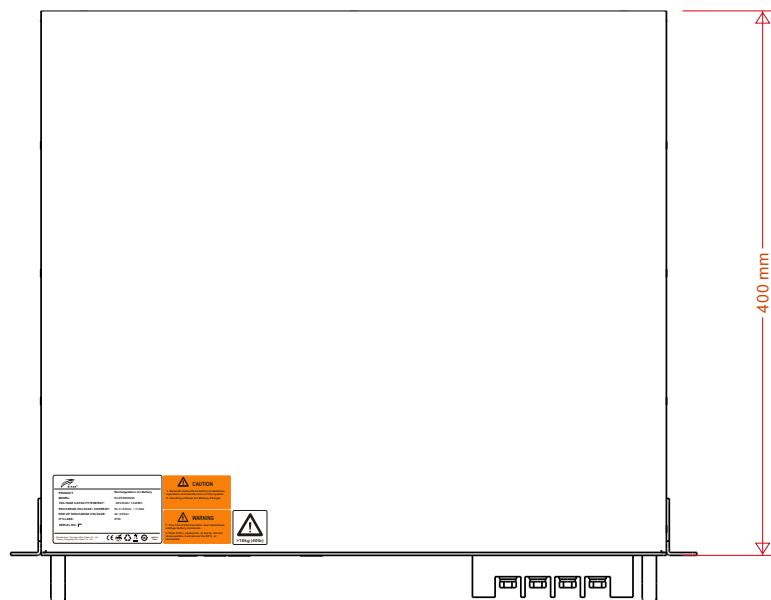
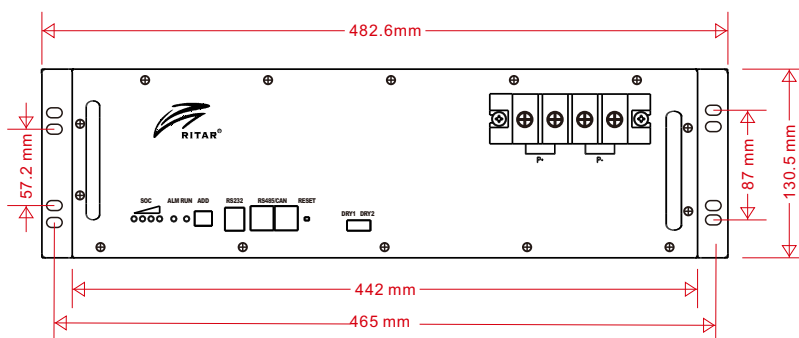
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480003002
Model	R-LFP48V30Ah
Cell Type	LFP Prismatic cell
Internal Connection	2P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	30
Total Energy [Wh]	1440
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	22.4
Max. Charging Current [A]	30
Max. Discharging Current [A]	30
Pulse Discharge Current	36A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V30Ah Dimension

Part Number: 8010480003001



The datasheet is subject to change without prior notification

48V50Ah

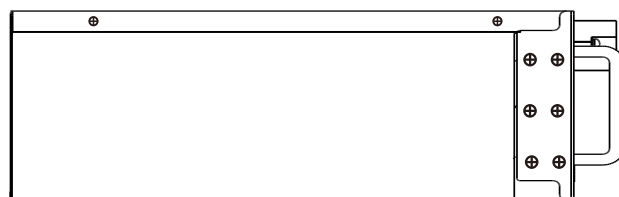
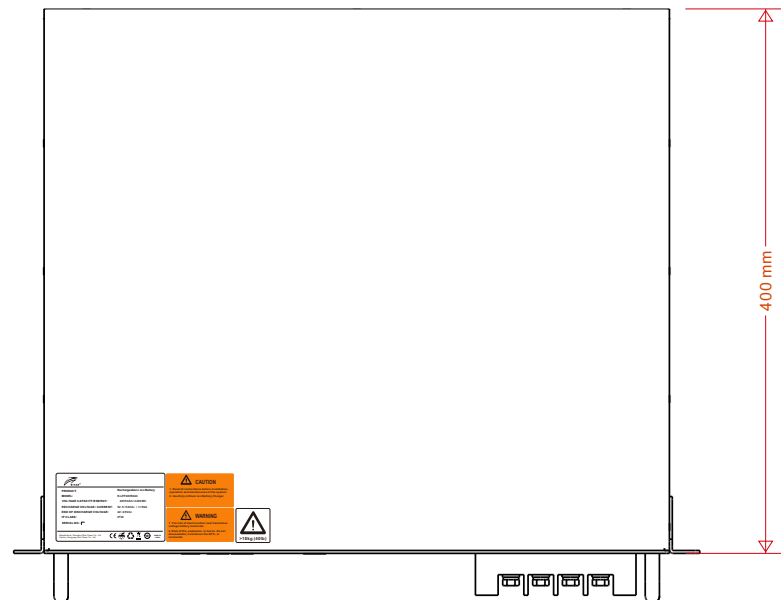
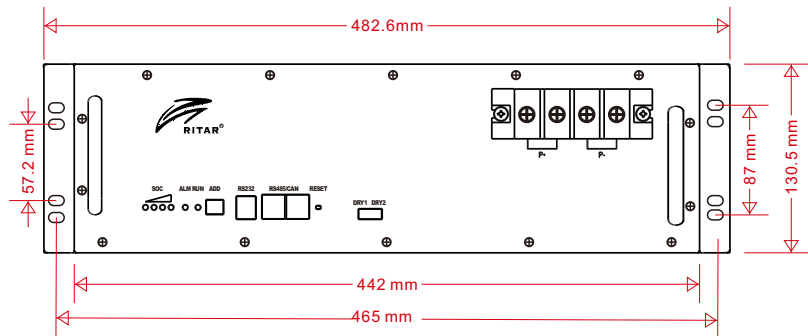
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480005001
Model	R-LFP48V50Ah
Cell Type	LFP Prismatic cell 50Ah
Internal Connection	1P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	50
Total Energy [Wh]	2400
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	30.0
Max. Charging Current [A]	50
Max. Discharging Current [A]	50
Pulse Discharge Current	70A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V50Ah Dimension

Part Number: 8010480005001



48V75Ah

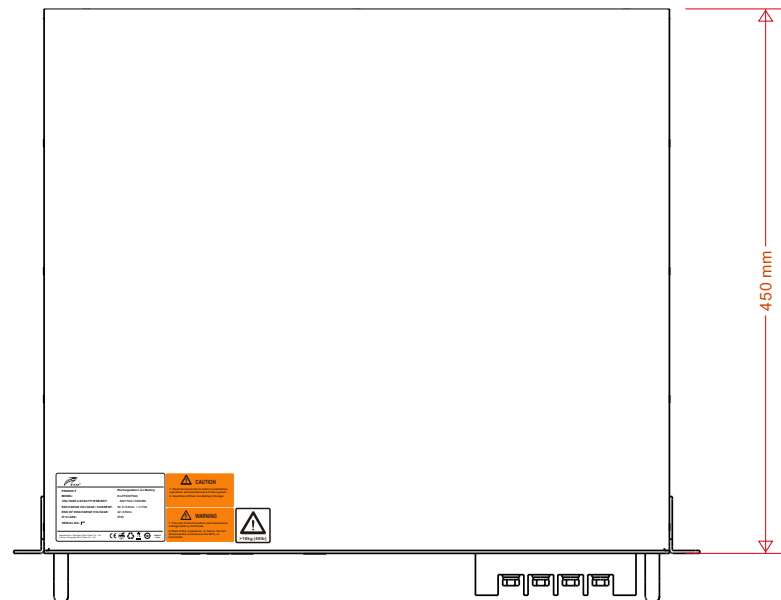
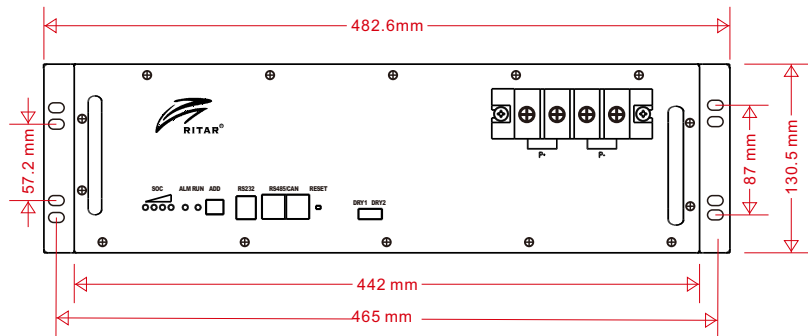
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480007501
Model	R-LFP48V75Ah
Cell Type	LFP Prismatic cell
Internal Connection	1P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	75
Total Energy [Wh]	3600
Dimension (W*D*H, mm)	442*450*130.5
Weight [Kg]	37.8
Max. Charging Current [A]	75
Max. Discharging Current [A]	75
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V75Ah Dimension

Part Number: 8010480007501



48V80Ah

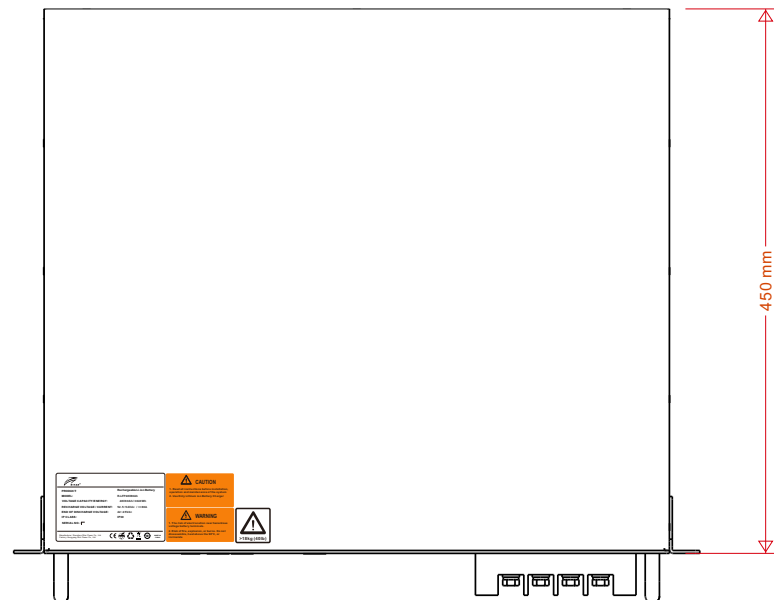
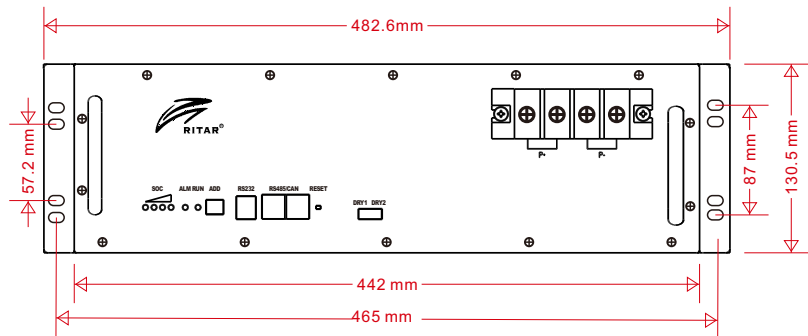
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480008001
Model	R-LFP48V80Ah
Cell Type	LFP Prismatic cell
Internal Connection	2P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	80
Total Energy [Wh]	3840
Dimension (W*D*H, mm)	442*450*130.5
Weight [Kg]	38.0
Max. Charging Current [A]	80
Max. Discharging Current [A]	80
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V80Ah Dimension

Part Number: 8010480008001



48V100Ah

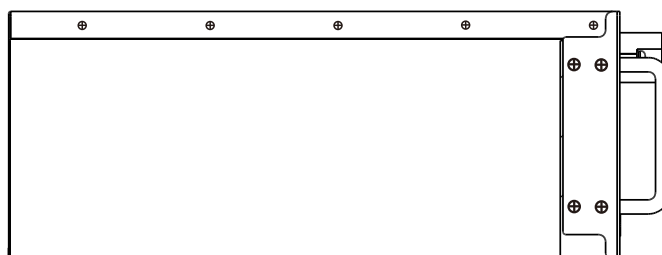
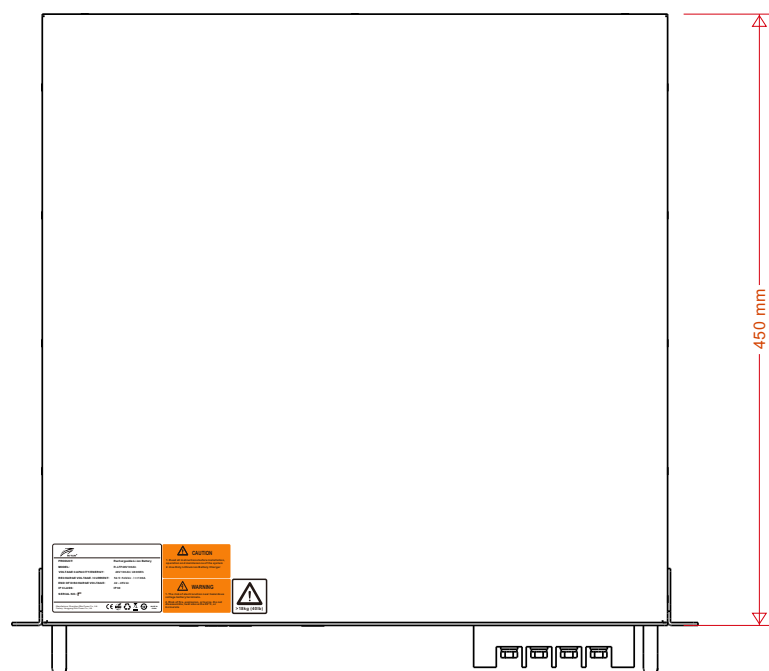
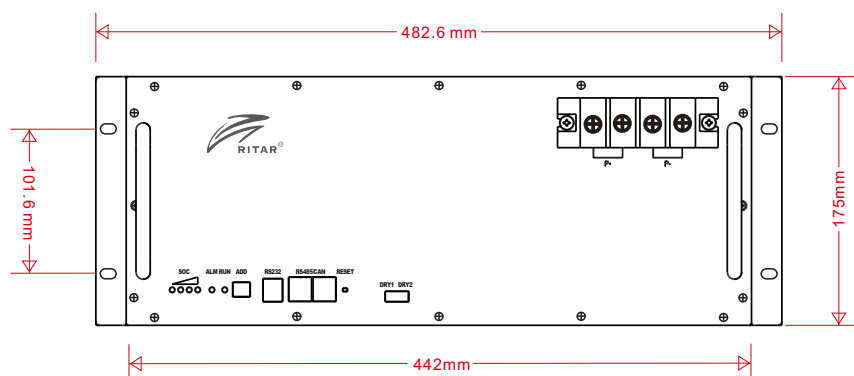
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480010001
Model	R-LFP48V100Ah
Cell Type	LFP Prismatic cell 50Ah
Internal Connection	2P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*450*175
Weight [Kg]	50
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V100Ah Dimension

Part Number: 8010480010001



48V135Ah

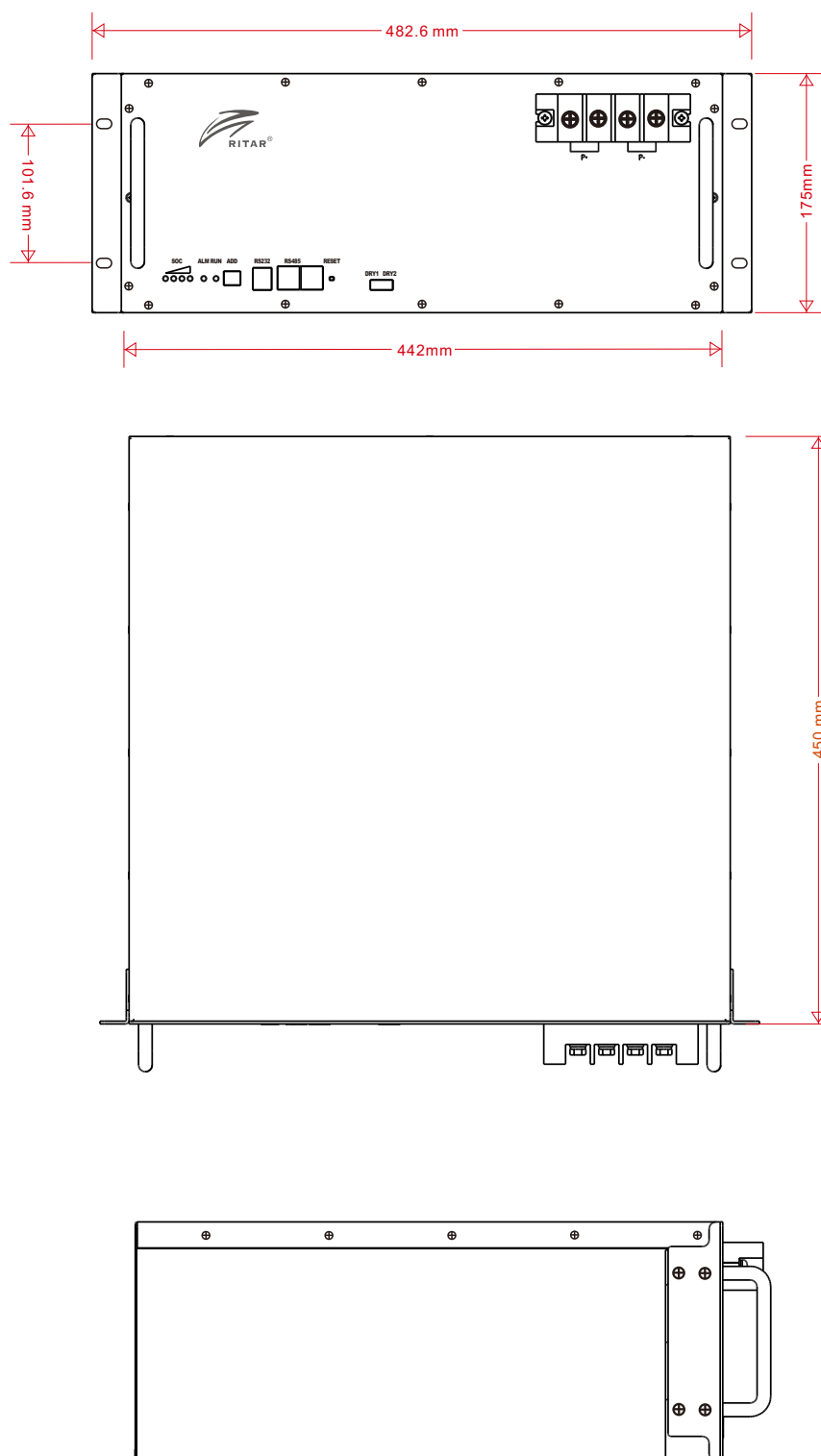
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480013501
Model	R-LFP48V135Ah
Cell Type	LFP Prismatic cell 135Ah
Internal Connection	1P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	135
Total Energy [Wh]	6480
Dimension (W*D*H, mm)	442*450*175
Weight [Kg]	55
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V135Ah Dimension

Part Number: 8010480013501



48V150Ah

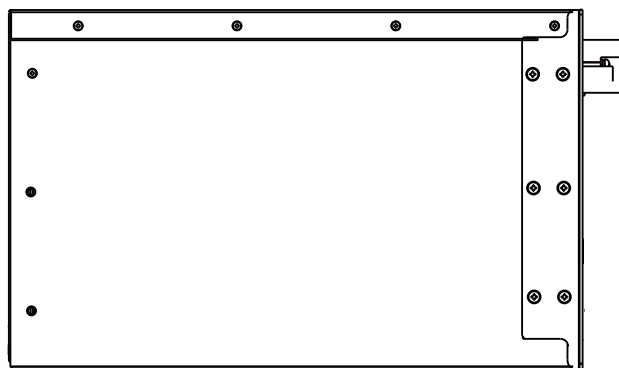
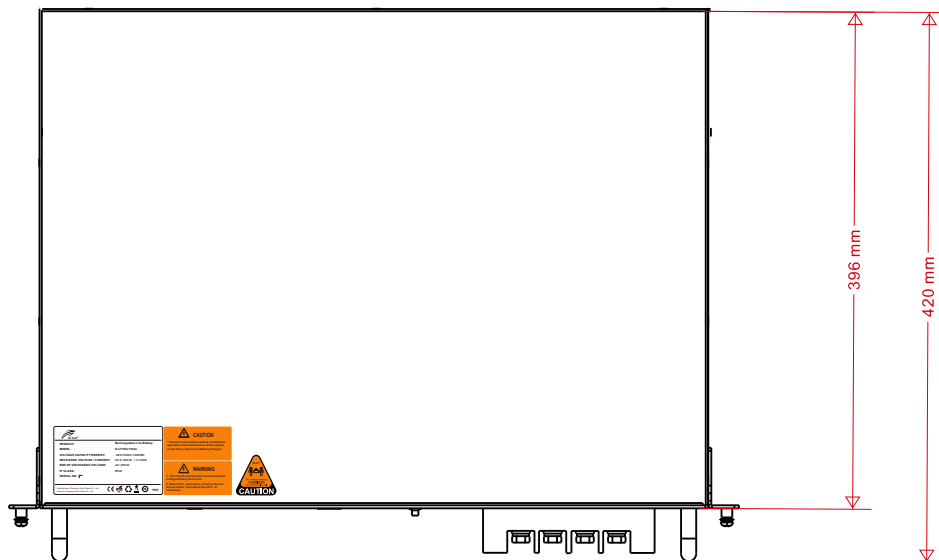
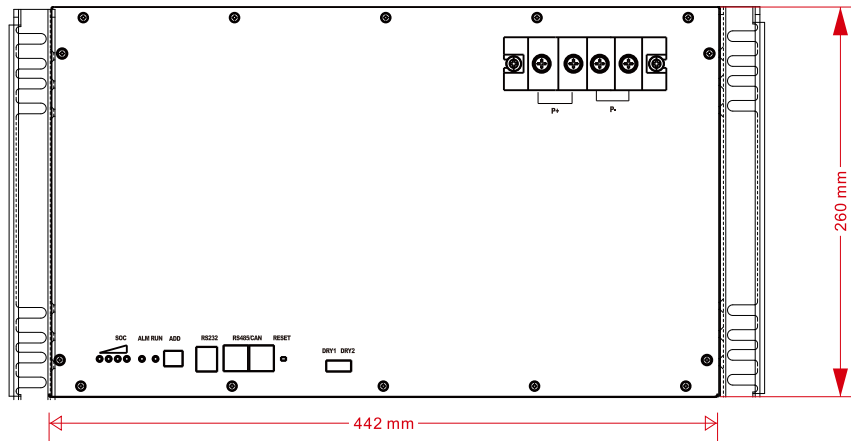
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480015001
Model	R-LFP48V150Ah
Cell Type	LFP Prismatic cell 50Ah
Internal Connection	3P15S
Nominal Voltage [V]	51.2
Nominal Capacity [Ah]	150
Total Energy [Wh]	7220
Dimension (W*D*H, mm)	442*400*260
Weight [Kg]	70
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V150Ah Dimension

Part Number: 8010480015001



48V150Ah

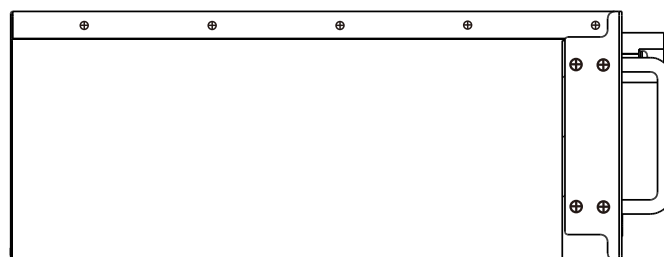
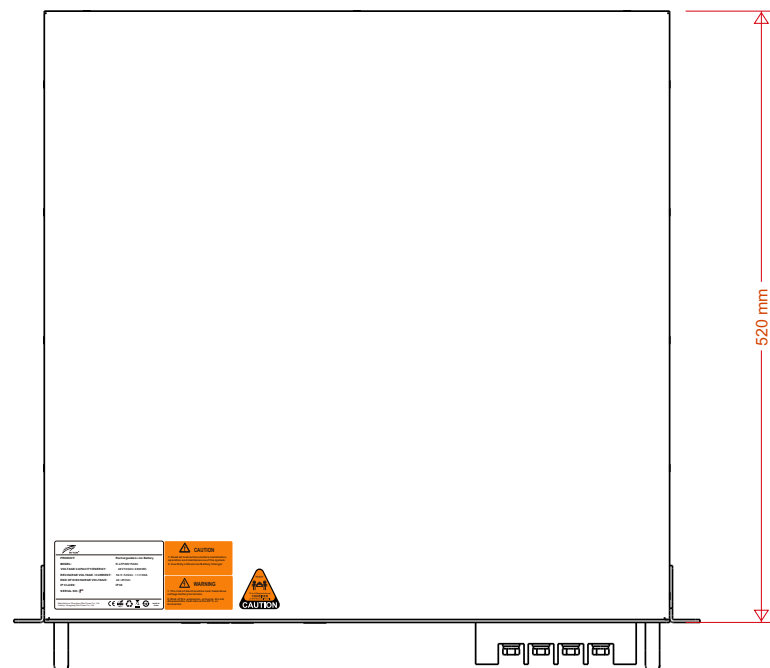
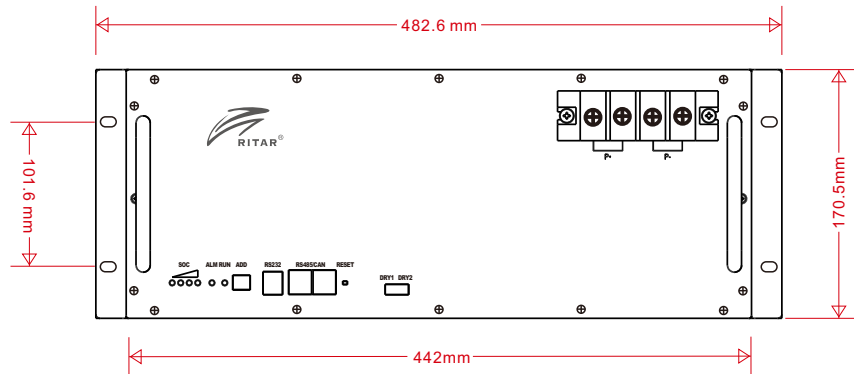
RACK MOUNTED LI-ION BATTERY SPECIFICATION



Part Number	8010480015002
	R-LFP48V150Ah
Cell Type	LFP Prismatic cell 50Ah
Internal Connection	3P15S
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	150
Total Energy [Wh]	7200
Dimension (W*D*H, mm)	442*520*175
Weight [Kg]	70
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	120A @1S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS232, RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support
Optional Parts	MCB; LCD display; Gyroscope Anti-theft; Gyroscope Anti-theft; SNMP module;

R-LFP48V150Ah Dimension

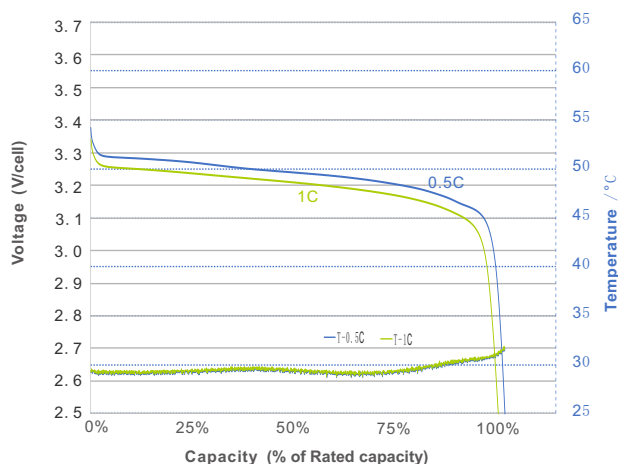
Part Number: 8010480015002



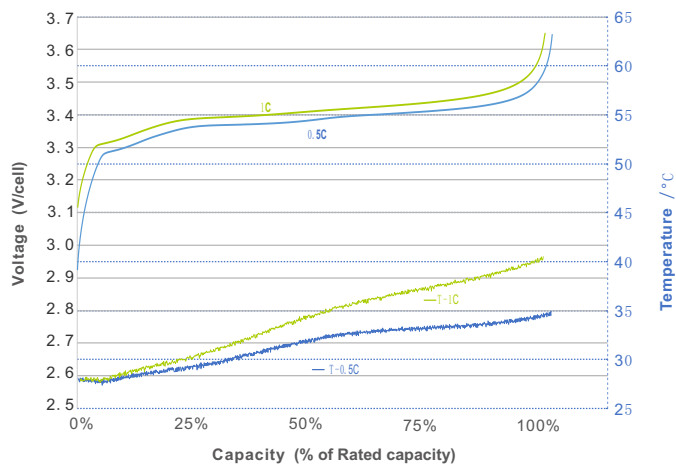
48V

RACK MOUNTED LI-ION BATTERY

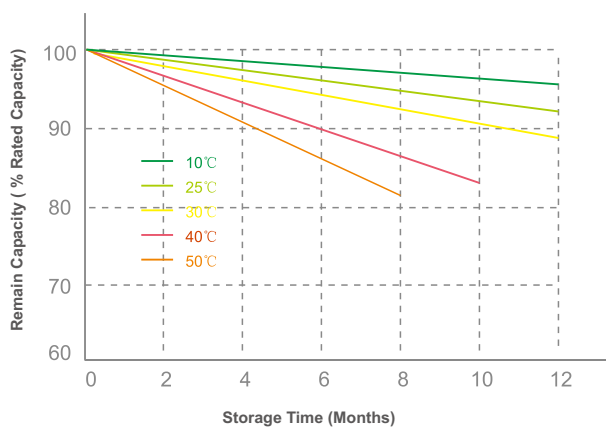
Different Discharge Rate and Temperature Characteristic



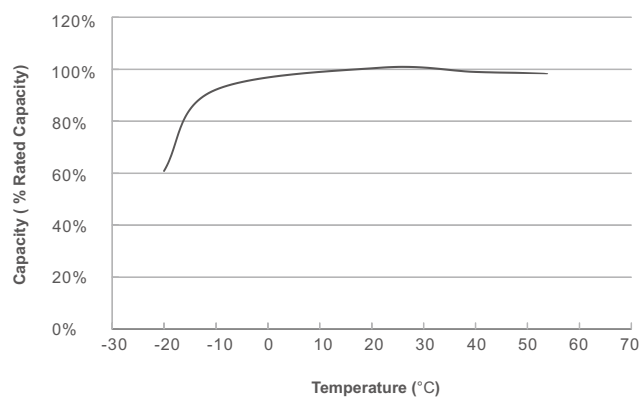
Different Charge Rate and Temperature Characteristic



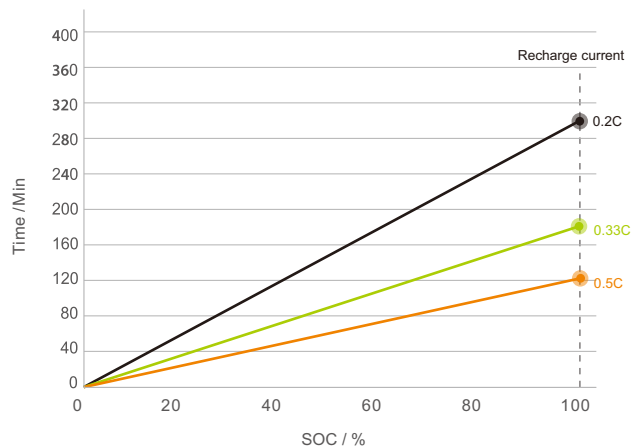
Different Temperature Self Discharge Curve



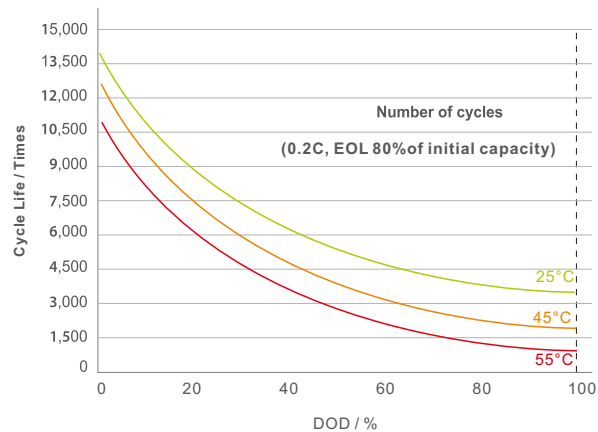
Capacity with Different Temperature



Typical Recharge Time

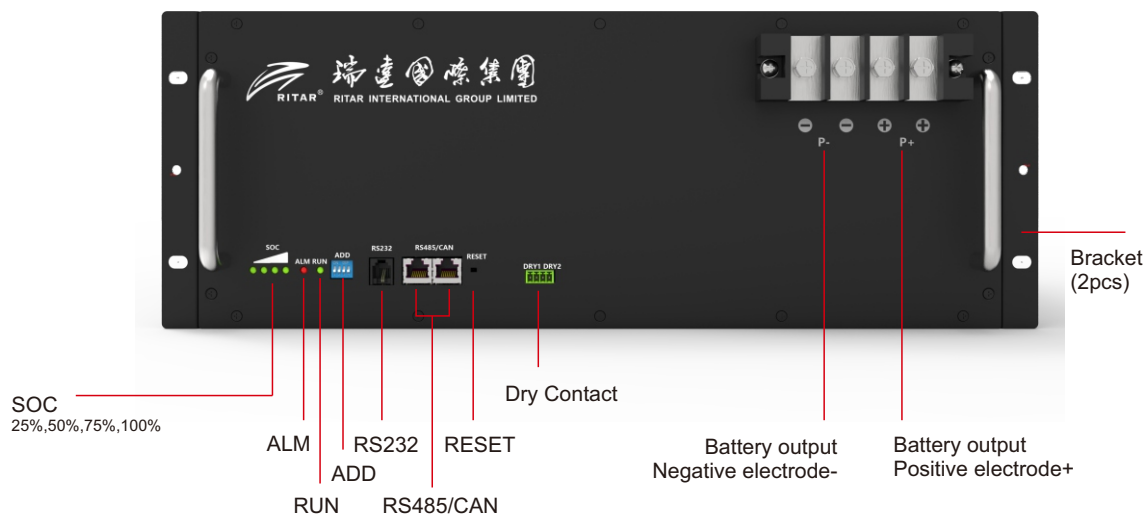


Typical Cycle Life



RACK MOUNTED LI-ION BATTERY

Standard Product - Front Panel



Optional Parts

